

# New York State Department of Transportation

## Yellow Flag NB23U4W014

By: Malav Shah

Flag Date: April 26, 2023

Superseding Information:

This flag supersedes: YF NB2228W022

### Structure Information

*BIN:* 1065318

*Feature Carried:* 278I278IX2M23027

*Feature Crossed:* 6TH AVENUE

*Orientation:* 8 - NORTHWEST

*Region:* 11 - NEW YORK CITY

*County:* KINGS

*Political Unit:* City of NEW YORK

*Approximate Year Built:* 1962

*Posted Load Matches Inventory :* Yes

*Bridge Load Posting (Tons) :* Not Posted for Load

*Primary Owner:* New York State Department of Transportation

*Primary Maintenance Responsibility:* 12 - State - Subcontracted to another Party

*Typical or Main Span Type:* 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

*Number of Spans:* 322

### Verbal Notification Information

*Person Notified:* Heinz Joachim, P.E.

*Date:* April 27, 2023 2:00:00 PM

*Of:* NYSDOT Region 11

### Signature Information

*Signature:* Malav Shah, P.E. 106620-1

*Date:* May 24, 2023

*Reviewed By:* Robert Kemp

*Date:* May 24, 2023

*Attachments:* 6

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 256</b>			
	107 - Steel Open Girder/Beam	976	ft
	PR831 - Steel Beam End	40	each

### Flagged Condition Description

This Yellow Flag No. NB23U4W014 supersedes Yellow Flag No. NB2228W022.

Location: Span 256 Girder G16 at Pier 256 over 3rd Avenue NB

Description: The web of the girder at the upper cope has a 1-3/4" long diagonal crack that extends into a 1/2" diameter corrosion hole. The surrounded web area of 11" H x 3" W has up to 3/16" deep section loss.

There has been no significant change since previous inspection.

The affected member Girder G16 is a load path redundant built-up steel girder consisting of varying web depth x 3/8" thick and two equal leg angles (L 5" x 5" x 1/2") for the top and bottom flanges. The spacing between Girder G15 and G16 is 3'-9.75" on center and 6'-11" on center from G17.

Notes:

1. No deformation was observed in any part of Girder G16 connection to Pier 256 cap beam.
2. The adjacent Girder G15 (left side) is in good condition. Girder G17 (right side) has web repair plates with moderate corrosion along the edges.
3. A right single lane closure on 3rd Avenue Eastbound between 20th and 21st Streets with a 60' bucket truck was used to access platforms installed by contractor for on-going construction/painting work, to inspect this location.

**Flag Photographs**

Photo Number: 1

Photo Filename: NB23U4W014 LOCATION PLAN.JPG

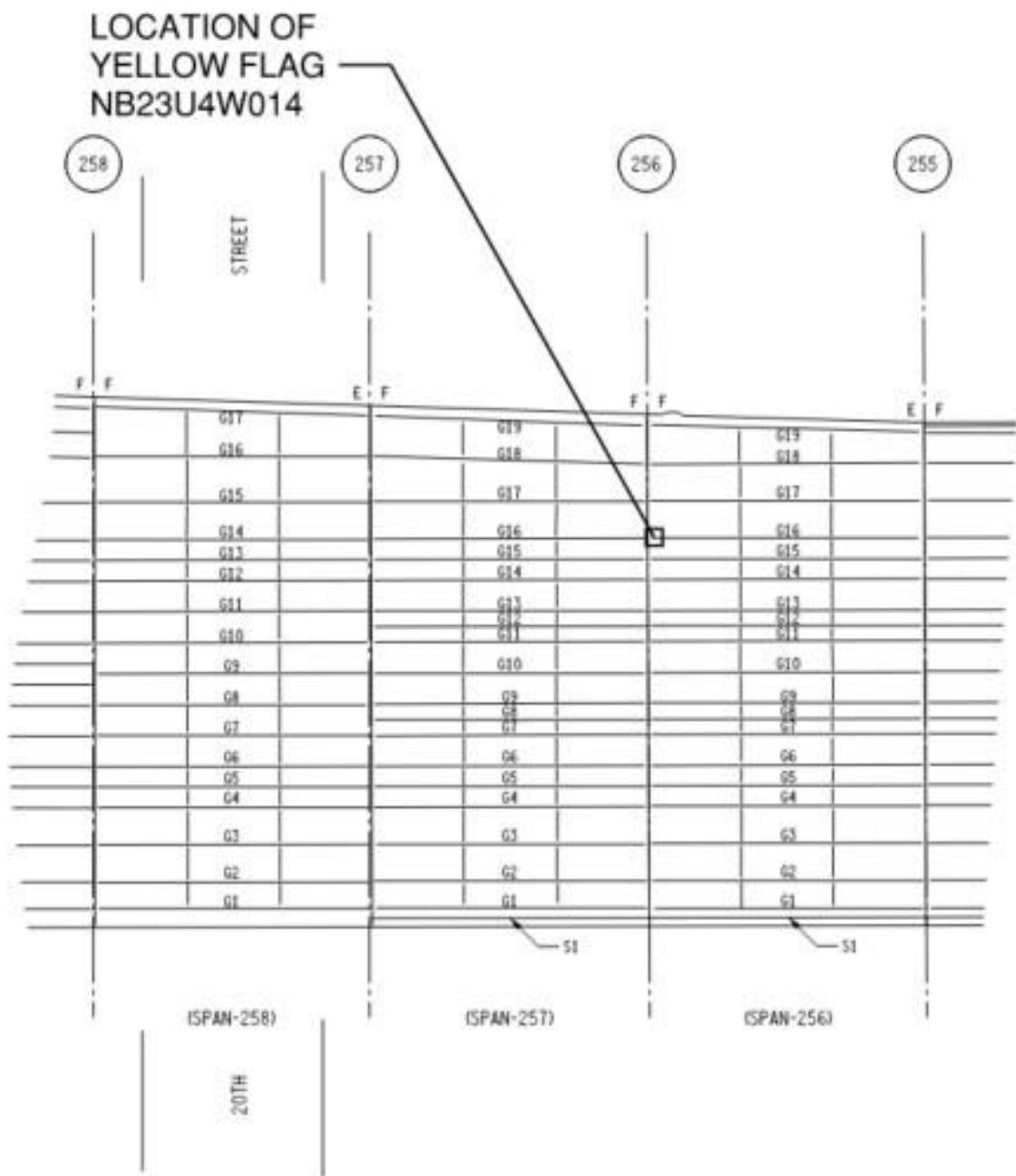
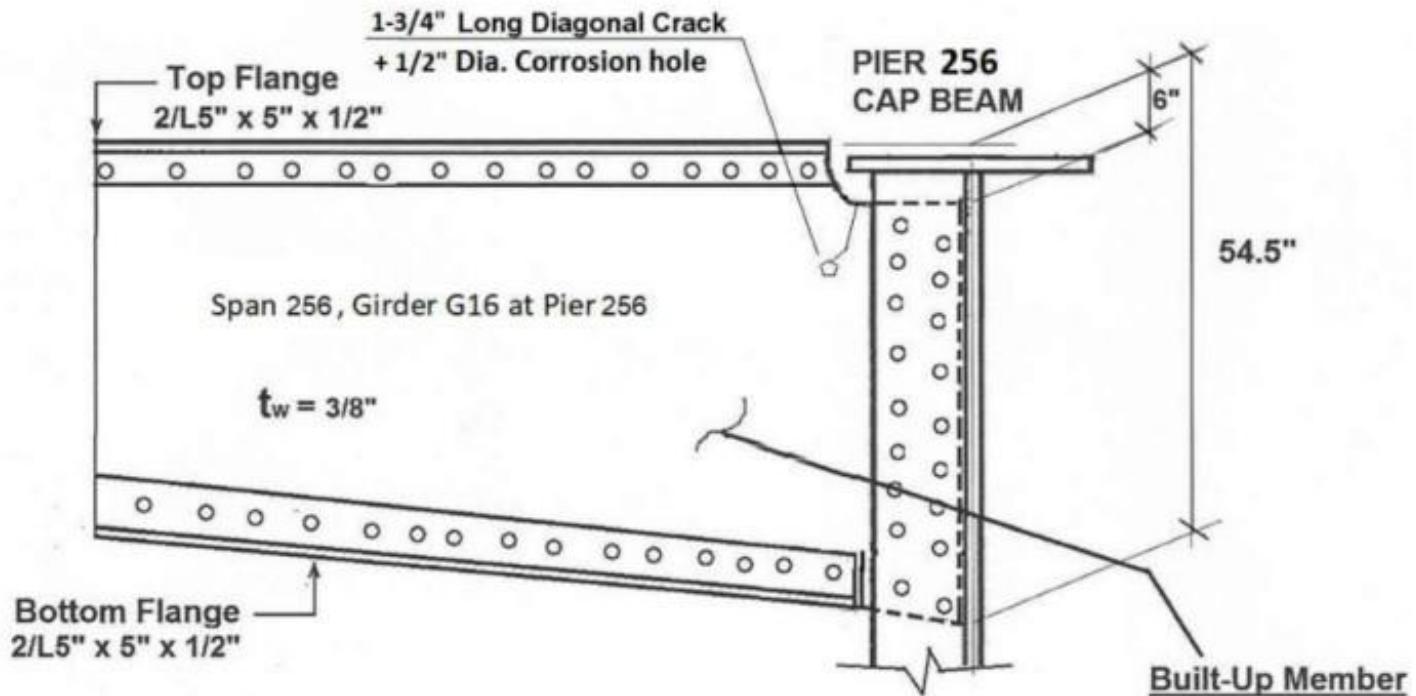
**Attachment Description: Flag Location Plan**

Photo Number: 2

Photo Filename: NB23U4W014 Condition Sketch.JPG

**Built-Up Member****Properties**

Vary depth web: 54.5" b-tob Ls at Piers 255 and 256 and 33" at midspan.

Web thickness = 3/8"

Bottom and Top Flanges are two equal leg angles L 5" x 5" x 1/2"

**SKETCH FOR YELLOW # NB23U4W014**  
**SPAN 256, GIRDER G16 AT PIER 256**  
**(LOOKING LEFT)**  
**N.T.S**

*Attachment Description: Flag Condition Sketch*

Photo Number: 3

Photo Filename: SP 256 G16 @ P256 GV.JPG



*Attachment Description: General View of Flag Location. Looking End*

Photo Number: 4

Photo Filename: P4262621.JPG



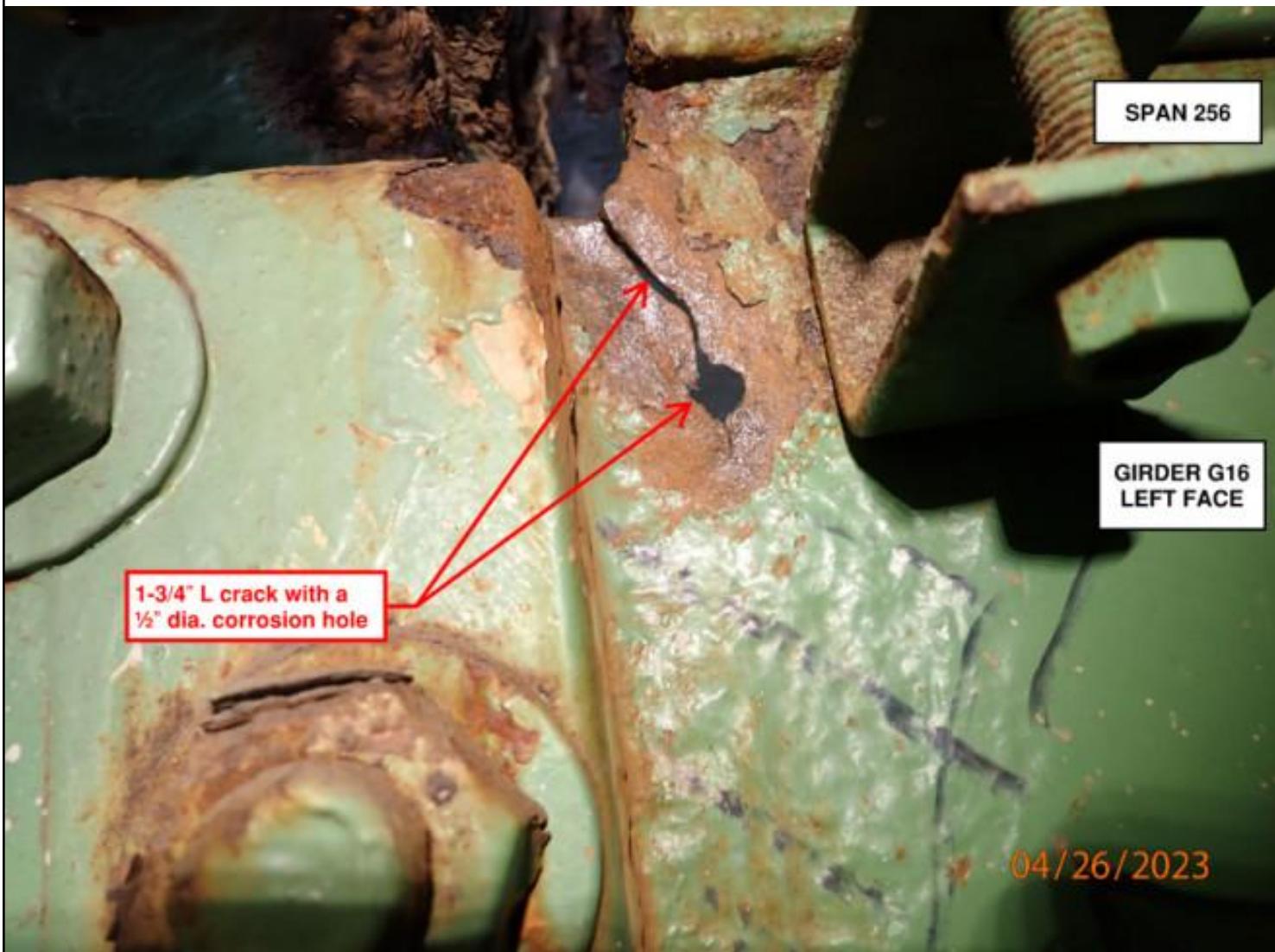
**Attachment Description:** General View of the Girder End with flagged condition. Looking End-Right.

Photo Number: 5

Photo Filename: P4262622.JPG



**Attachment Description:** Close up view of flagged condition. 1-3/4" L crack with a 1/2" dia. corrosion hole with up to 3/16" SL in surrounding area of 11" H x 3" W. Looking Right.

Photo Number: **6**Photo Filename: **P4262625.JPG**

**Attachment Description:** Close up view of flagged condition. 1-3/4" L crack with a 1/2" dia. corrosion hole at upper cope of Girder web. Looking Right.